

Amendment to the Specification:

Please amend the paragraph beginning at page 17, line 4 as follows:

As used herein, "PSMA" or "prostate-specific membrane antigen" protein refers to mammalian PSMA, preferably human PSMA protein and dimers thereof. Human PSMA includes the two protein products, PSMA and PSM', encoded by the two alternatively spliced mRNA variants (containing about 2,653 and 2,387 nucleotides, respectively) of the PSMA cDNA disclosed in Israeli *et al.* (1993) *Cancer Res.* 53:227-230; Su *et al.* (1995) *Cancer Res.* 55:1441-1443; US 5,538,866, US 5,935,818, and WO 97/35616, the contents of which are hereby incorporated by reference. The long transcript of PSMA encodes a protein product of about 100-120 kDa molecular weight characterized as a type II transmembrane receptor having sequence homology with the transferrin receptor and having NAALADase activity (Carter *et al.* (1996) *Proc. Natl. Acad. Sci. USA* 93:749-753). Accordingly, the term "human PSMA" refers to at least two protein products, human PSMA and PSM', which have or are homologous to (e.g., at least about 85%, 90%, 95% identical to) an amino acid sequence: ~~as shown in Israeli *et al.* (1993) *Cancer Res.* 53:227-230; Su *et al.* (1995) *Cancer Res.* 55:1441-1443; US 5,538,866, US 5,935,818, and WO 97/35616~~

MetTrpAsnLeuLeuHisGluThrAspSerAlaValAlaThrAlaArgArgProArgTrpLeuCysAlaGly  
AlaLeuValLeuAlaGlyGlyPhePheLeuLeuGlyPheLeuPheGlyTrpPheIleLysSerSerAsnGluAlaThrA  
snIleThrProLysHisAsnMetLysAlaPheLeuAspGluLeuLysAlaGluAsnIleLysLysPheLeuTyrAsnPh  
eThrGlnIleProHisLeuAlaGlyThrGluGlnAsnPheGlnLeuAlaLysGlnIleGlnSerGlnTrpLysGluPheG  
lyLeuAspSerValGluLeuAlaHisTyrAspValLeuLeuSerTyrProAsnLysThrHisProAsnTyrIleSerIleI  
eAsnGluAspGlyAsnGluIlePheAsnThrSerLeuPheGluProProProGlyTyrGluAsnValSerAspIle  
ValProProPheSerAlaPheSerProGlnGlyMetProGluGlyAspLeuValTyrValAsnTyrAlaArgThrGluA  
spPhePheLysLeuGluArgAspMetLysIleAsnCysSerGlyLysIleValIleAlaArgTyrGlyLysValPheArg  
GlyAsnLysValLysAsnAlaGlnLeuAlaGlyAlaLysGlyValIleLeuTyrSerAspProAlaAspTyrPheAlaP  
roGlyValLysSerTyrProAspGlyTrpAsnLeuProGlyGlyValGlnArgGlyAsnIleLeuAsnLeuAsnG  
lyAlaGlyAspProLeuThrProGlyTyrProAlaAsnGluTyrAlaTyrArgArgGlyIleAlaGluAlaValGlyLeu  
ProSerIleProValHisProIleGlyTyrTyrAspAlaGlnLysLeuLeuGluLysMetGlyGlySerAlaProProAsp  
SerSerTrpArgGlySerLeuLysValProTyrAsnValGlyProGlyPheThrGlyAsnPheSerThrGlnLysValL

ysMetHisIleHisSerThrAsnGluValThrArgIleTyrAsnValIleGlyThrLeuArgGlyAlaValGluProAspArgTyrValIleLeuGlyGlyHisArgAspSerTrpValPheGlyGlyIleAspProGlnSerGlyAlaAlaValValHisGluIleValArgSerPheGlyThrLeuLysLysGluGlyTrpArgProArgArgThrIleLeuPheAlaSerTrpAspAlaGluGluPheGlyLeuLeuGlySerThrGluTrpAlaGluGluAsnSerArgLeuLeuGlnGluArgGlyValAlaTyrIleAsnAlaAspSerSerIleGluGlyAsnTyrThrLeuArgValAspCysThrProLeuMetTyrSerLeuValAsnLeuThrLysGluLeuLysSerProAspGluGlyPheGluGlyLysSerLeuTyrGluSerTrpThrLysLysSerProSerProGluPheSerGlyMetProArgIleSerLysLeuGlySerGlyAsnAspPheGluValPhePheGlnArgLeuGlyIleAlaSerGlyArgAlaArgTyrThrLysAsnTrpGluThrAsnLysPheSerGlyTyrProLeuTyrHisSerValTyrGluThrTyrGluLeuValGluLysPheTyrAspProMetPheLysTyrHisLeuThrValAlaGlnValArgGlyGlyMetValPheGluLeuAlaAsnSerIleValLeuProPheAspCysArgAspTyrAlaValValLeuArgLysTyrAlaAspLysIleTyrSerIleSerMetLysHisProGlnGluMetLysThrTyrSerValSerPheAspSerLeuPheSerAlaValLysAsnPheThrGluIleAlaSerLysPheSerGluArgLeuGlnAspPheAspLysSerAsnProIleValLeuArgMetMetAsnAspGlnLeuMetPheLeuGluArgAlaPheIleAspProLeuGlyLeuProAspArgProPheTyrArgHisValIleTyrAlaProSerSerHisAsnLysTyrAlaGlyGluSerPheProGlyIleTyrAspAlaLeuPheAspIleGluSerLysValAspProSerLysAlaTrpGlyGluValLysArgGlnIleTyrValAlaAlaPheThrValGlnAlaAlaAlaGluThrLeuSerGluValAla (SEQ ID NO:1) or

MetLysAlaPheLeuAspGluLeuLysAlaGluAsnIleLysLysPheLeuTyrAsnPheThrGlnIleProHisLeuAlaGlyThrGluGlnAsnPheGlnLeuAlaLysGlnIleGlnSerGlnTrpLysGluPheGlyLeuAspSerValGluLeuAlaHisTyrAspValLeuLeuSerTyrProAsnLysThrHisProAsnTyrIleSerIleIleAsnGluAspGlyAsnGluIlePheAsnThrSerLeuPheGluProProProGlyTyrGluAsnValSerAspIleValProProPheSerAlaPheSerProGlnGlyMetProGluGlyAspLeuValTyrValAsnTyrAlaArgThrGluAspPhePheLysLeuGluArgAspMetLysIleAsnCysSerGlyLysIleValIleAlaArgTyrGlyLysValPheArgGlyAsnLysValLysAsnAlaGlnLeuAlaGlyAlaLysGlyValIleLeuTyrSerAspProAlaAspTyrPheAlaProGlyValLysSerTyrProAspGlyTrpAsnLeuProGlyGlyValGlnArgGlyAsnIleLeuAsnGlyAlaGlyAspProLeuThrProGlyTyrProAlaAsnGluTyrAlaTyrArgArgGlyIleAlaGluAlaValGlyLeuProSerIleProValHisProGlyTyrTyrAspAlaGlnLysLeuLeuGluLysMetGlyGlySerAlaProProAspSerSerTrpArgGlySerLeuLysValProTyrAsnValGlyProGlyPheThrGlyAsnPheSerThrGlnLysValLysMetHisIleHisSerThrAsnGluValThrArgIleTyrAsnValIleGlyThrLeuArgGlyAlaValGluProAspArgTyrValIleLeuGlyGlyHisArgAspSerTrpValPheGlyGlyIleAspProGlnSerGlyAlaAlaValValHisGluIleValArgSerPheGly

yThrLeuLysLysGluGlyTrpArgProArgArgThrIleLeuPheAlaSerTrpAspAlaGluGluPheGlyLeuLeu  
GlySerThrGluTrpAlaGluGluAsnSerArgLeuLeuGlnGluArgGlyValAlaTyrIleAsnAlaAspSerSerIl  
eGluGlyAsnTyrThrLeuArgValAspCysThrProLeuMetTyrSerLeuValHisAsnLeuThrLysGluLeuL  
ysSerProAspGluGlyPheGluGlyLysSerLeuTyrGluSerTrpThrLysLysSerProSerProGluPheSerGly  
MetProArgIleSerLysLeuGlySerGlyAsnAspPheGluValPhePheGlnArgLeuGlyIleAlaSerGlyArgAl  
aArgTyrThrLysAsnTrpGluThrAsnLysPheSerGlyTyrProLeuTyrHisSerValTyrGluThrTyrGluLeu  
ValGluLysPheTyrAspProMetPheLysTyrHisLeuThrValAlaGlnValArgGlyGlyMetValPheGluLeu  
AlaAsnSerIleValLeuProPheAspCysArgAspTyrAlaValValLeuArgLysTyrAlaAspLysIleTyrSerIle  
SerMetLysHisProGlnGluMetLysThrTyrSerValSerPheAspSerLeuPheSerAlaValLysAsnPheThrG  
luIleAlaSerLysPheSerGluArgLeuGlnAspPheAspLysSerAsnProIleValLeuArgMetMetAsnAspGl  
nLeuMetPheLeuGluArgAlaPheIleAspProLeuGlyLeuProAspArgProPheTyrArgHisValIleTyrAla  
ProSerSerHisAsnLysTyrAlaGlyGluSerPheProGlyIleTyrAspAlaLeuPheAspIleGluSerLysValAsp  
ProSerLysAlaTrpGlyGluValLysArgGlnIleTyrValAlaAlaPheThrValGlnAlaAlaAlaGluThrLeuSer  
GluValAla (SEQ ID NO:2); or which is encoded by (a) a naturally occurring human PSMA  
nucleic acid sequence (e.g., Israeli *et al.* (1993) *Cancer Res.* 53:227-230 or US 5,538,866); (b) a nucleic acid sequence degenerate to a naturally occurring human PSMA sequence; (c) a nucleic acid sequence homologous to (e.g., at least about 85%, 90%, 95% identical to) the naturally occurring human PSMA nucleic acid sequence; or (d) a nucleic acid sequence that hybridizes to one of the foregoing nucleic acid sequences under stringent conditions, e.g., highly stringent conditions.